



L2 1 100:193165/DN

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1984:193165 CAPLUS Full-text  
 DN 100:193165  
 TI Blow-molded polyesters with good gas barrier properties  
 PA Toyobo Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 58160344	A2	19830922	JP 1982-43429	19820317
	JP 04054702	B4	19920901		
PRAI	JP 1982-43429		19820317		

AB The title compns. contain 100 parts thermoplastic polyester resin contg. mainly poly(ethylene terephthalate) (I) [25038-59-9] and 1-100 parts m-xylylene group-containing polyamide. The compns. have good mech. properties, good transparency, and good O barrier properties. Thus, 95 parts I and 5 parts poly(m-xylyleneadipamide) [25805-74-7] were mixed to give a composition with tensile strength 1092 kg/cm<sup>2</sup>, transparency 77%, haze 19%, and O permeation 0.34 mL.24 h.atm O.

L3 1 107:78465/DN

=> d 13 bib,abs

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1987:478465 CAPLUS Full-text  
 DN 107:78465  
 TI Polyhydroxy polyester containers  
 IN Tanitsu, Tadao; Ishimaru, Etsuji; Miura, Kimiyoshi; Nakano, Takayuki  
 PA Mitsui Petrochemical Industries, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 24 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62015222	A2	19870123	JP 1985-154094	19850715
PRAI	JP 1985-154094		19850715		

AB Title polymers (I) having intrinsic viscosity 0.3-2 dL/g and glass temp. 30-160° are prepared, I being [OCH<sub>2</sub>CHOHCH<sub>2</sub>O<sub>2</sub>CR<sub>1</sub>CO]l[OCH<sub>2</sub>CHOHCH<sub>2</sub>O<sub>2</sub>CR<sub>2</sub>C

$O]m(OCH_2CHOHCH_2OR_3)_n$  ( $R_1$  = p-phenylene;  $R_2$  = C2-18 divalent hydrocarbyl;  $R_3$  = C6-20 divalent aromatic hydrocarbyl;  $l$  = integers;  $m, n = 0$ , or integers;  $l/(l + m + n)$  0.3-1.0;  $m/(l + m + n)$  0-0.7;  $n/(l + m + n)$  0-0.5). Thus, heating with stirring a mixture containing N-methylpyrrolidone 600, diglycidyl terephthalate (containing 5.7 epoxide equiv/kg) 350.9, terephthalic acid 166, and Me<sub>2</sub>NCH<sub>2</sub>Ph 2 parts at 140° for 30 min, adding 1200 parts N-methylpyrrolidone, and stirring for 3 h provided a I polyhydroxy polyester with intrinsic viscosity 0.71 dL/g, and glass temperature 55° and CO<sub>2</sub>-gas permeability 2.0 mL.mm/m<sup>2</sup>.day atmospheric. A bottle containing 150 μ-thick poly(ethylene terephthalate) (PET J015) and 150 μ-thick I exhibited CO<sub>2</sub>-gas permeability 0.88 mL/day bottle atm and O-gas permeability 0.17 mL/day.bottle.atmospheric

L4 1 118:23225/DN

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1993:23225 CAPLUS Full-text  
 DN 118:23225  
 TI Polyester resin compositions for drawn-blow molding  
 IN Hashimoto, Mikio; Azuma, Isaburo  
 PA Mitsui Petrochemical Industries, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 04168148	A2	19920616	JP 1990-294820	19901031
	JP 2953534	B2	19990927		
PRAI	JP 1990-294820		19901031		

AB Compns. having good transparency, gas-barrier and strength properties, useful for bottles and containers, comprise (A) 50-95% PET having the intrinsic viscosity  $[\eta]$ ; at 25° in o-chlorophenol] 0.6-1.5 dL/g, and (B) 5-50% copolymer  $[\eta]$  0.3-1.5 dL/g,  $n$  1.60-1.635] of ethylene glycol (I) and (60-98):(2-40) (molar) 2,6-naphthalenedicarboxylic acid (II) and C4-10-alkanedioic acid mixture. Thus, a copolymer of a II di-Me ester/di-Me sebacate 1649:173 mixture with I was (25 parts) blended with 100 parts PET (J125) at 270-300°, pelletized, and press-molded to give a 500-μm sheet which was biaxially stretched to give film with thickness 50 μm, haze 9.6%, and CO<sub>2</sub> permeability 10.1 cm<sup>3</sup>.mm/m<sup>2</sup>.day-atmospheric. The pelletized blend was injection-molded to give parisons (3.2 mm thick) useful for drawn-blow molding into bottles.